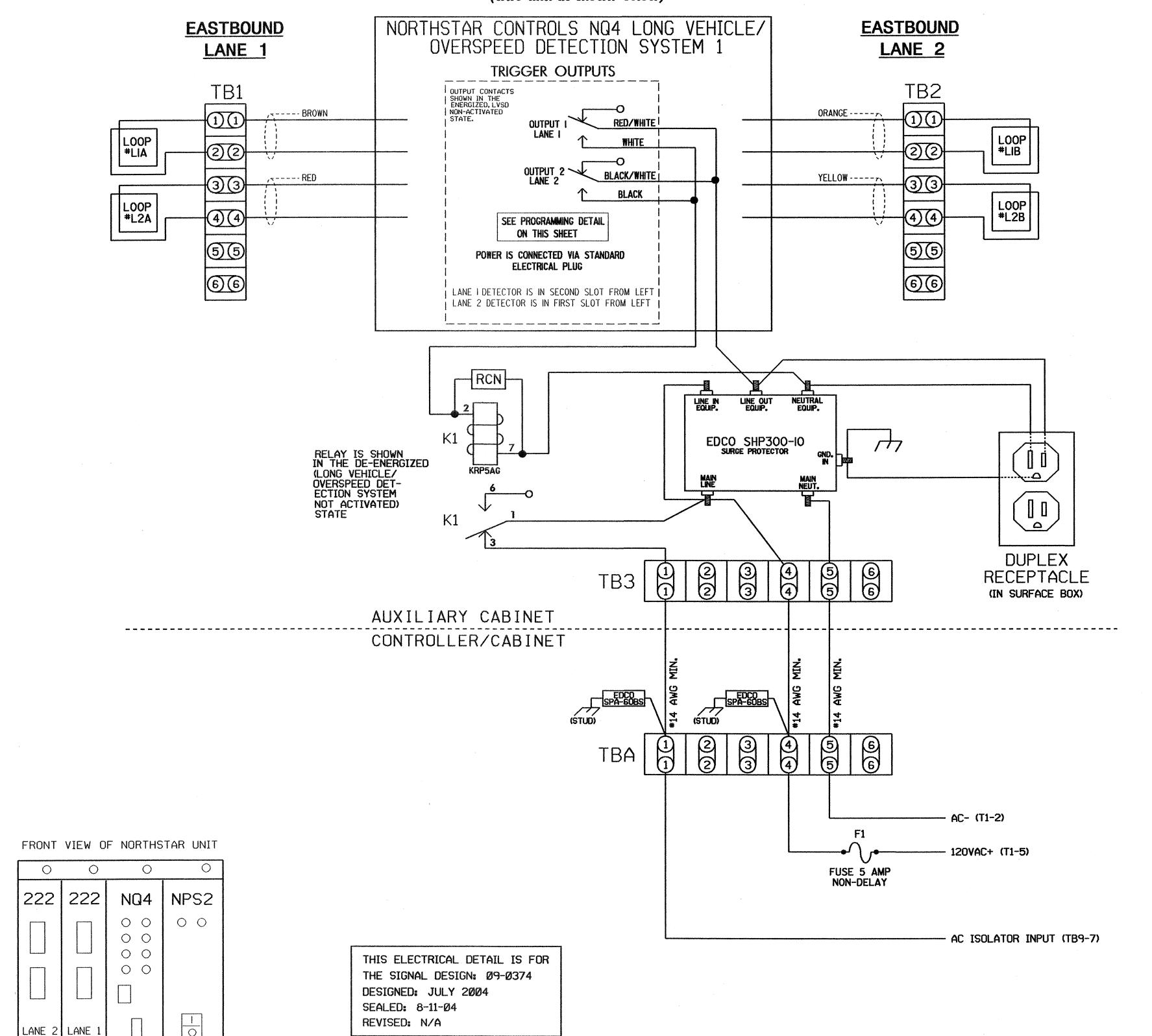
## WIRING DETAIL FOR NORTHSTAR CONTROLS NQ4 LONG VEHICLE / OVERSPEED DETECTION SYSTEM NO. 1 (wire unit as shown below)



## NOTES

- 1. ALL LOOP LEAD-INS SHALL BE TWISTED.
- 2. LOOP SPACING IS CRITICAL TO THE PROPER OPERATION OF THIS OVERSPEED DETECTION SYSTEM. MAKE SURE LOOP SPACING IS CORRECTLY PROGRAMMED IN NQ4 UNIT.
- 3. INSURE THAT CONNECTORS ON REAR OF NQ4 ARE SEATED SECURELY.
- 4. NQ4 UNIT SHALL BE LOCATED IN AN AUXILIARY CABINET ADJACENT TO SPEED WARNING SYSTEM LOOPS.
- 5. UNIT POWER IS CONNECTED BY STANDARD ELECTRICAL PLUG.
- 6. TERMINAL STRIPS TB1, TB2, TB3, & TBA TO BE ADDED BY INSTALLER.
- 7. RELAY 'K1' IS A SPDT WITH AN 120VAC COIL. POTTER & BRUMFIELD NO. KRP5AG, DOT MATERIAL NO. 625028600.
- 8. EDCO SPA-60BS IS A SURGE PROTECTOR FOR 120VAC INTERCONNECT CIRCUITS. DOT MATERIAL NO. 625022076.
- 9. EDCO SHP300-10 IS AN AC SERVICE SURGE PROTECTOR. DOT MATERIAL NO. 625022075.
- 10. IMPORTANT! A JUMPER MUST BE INSTALLED BETWEEN INPUT FILE TERMINALS J13-E AND J13-K IF NOT ALREADY PRESENT.
- 11. IMPORTANT! FOR PROPER OPERATION OF THE LONG VEHICLE DETECTION UNIT, REMOVE SURGE PROTECTION FROM TERMINALS TB9-7, TB9-8 AND TB9-9. TIE TB9-9 TO AC NEUTRAL.
- 12. IMPORTANT! MAKE SURE AC ISOLATOR CARD INSERTED AT INPUT FILE POSITION J13U IS SET FOR INVERTED OPERATION.

## NORTHSTAR CONTROLS MODEL NQ4 PROGRAMMING DETAIL

(program unit as shown)

NOTE: UNIT MUST BE PROGRAMMED USING PC AND HYPERTERMINAL PROGRAM.
FOR CONNECTION TO HYPERTERMINAL REFER TO NO4 OPERATION MANUAL.

PROGRAM NQ4 BY TYPING THE FOLLOWING COMMANDS

- 1. SET SPEED=55
- 2. SET LENGTH=22'
- 3. SET ALARMTIME=12
- 4. SET SEPARATION=28' (LEADING EDGE TO LEADING EDGE)
  (THIS VALUE MAY VARY, PROGRAM ACTUAL MEASURED SEPARATION)
- 5. SET LOOP LENGTH=6'
- (THIS VALUE MAY VARY, PROGRAM ACTUAL MEASURED LOOP LENGTH)
- 6. SAVE

PROGRAMMING APPLIES TO BOTH LANE 1 AND LANE 2

SIGNAL INSTALLATION - FINAL

BLECTRICAL AND PROGRAMMING DETAILS FOR:

US 70 (STATESVILLE BOULEVARD)

AT

NC 801/SR 1827

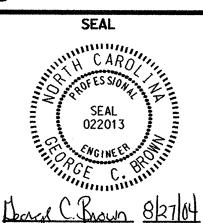
(HOECHST CELANESE ROAD)

DIVISION 9 ROWAN CO. W. OF SALISBURY

PLAN DATE: 8-6-04 REVIEWED BY: D.T. JOYCE OFF

PREPARED BY: D.H. SPAULDING REVIEWED BY:

REVISIONS



INIT. DATE

5-AUG-2004 14:18

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